Aerial photography shown on this sheet, obtained October 8, 1979, covers parts of the Rocky Creek, Sweetwater Creek, and Cypress Creek basins. Flooded areas were delineated using supplemental aerial photography of August 24 and October 6, 1979, and photobase topographic maps with 1-foot contours. The inundated area boundary around gaged lakes was outlined on the 1-foot contour maps at the recorded maximum stage. The inundated area boundaries around ungaged lakes and low-lying depressions were based on observed high-water marks or were estimated from the difference in altitude of the water on the date of photography and the maximum stage recorded on nearby gaged lakes. About 60 percent of the area in the northwest corner of the photograph is in the Rocky Creek basin; about 30 percent, along the east edge, is in the Cypress Creek basin; remaining coverage is in the Sweetwater Creek basin. The State of Florida base map below shows location of the study area and an index map shows location of the area covered by this sheet and the other 11 inundation maps in this report.

Developments are located near Reinheimer and Brant Lakes, and include

below shows location of the study area and an index map shows location of the area covered by this sheet and the other 11 inundation maps in this report.

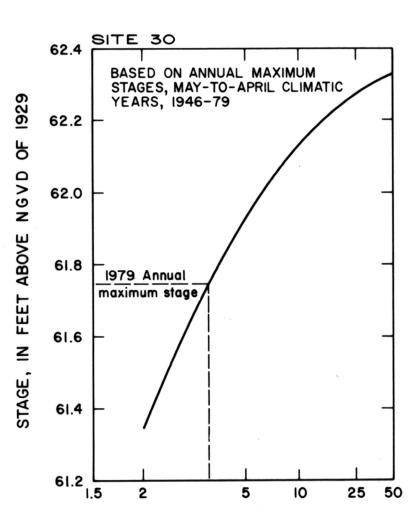
Developments are located near Reinheimer and Brant Lakes, and include Kingsborough Gardens, Coventry, and Brant Shores, respectively (table 1). Willow Creek and Whitaker Estates are located near the southeast edge of this sheet. A number of private residences are located near Pearl, Sapphire, North Crystal, and Crystal Lakes and Lake Charles and Brant Lake. Significant areal flooding occurred in areas near North Crystal, Crystal, Reinheimer, and Brant Lakes and Lakes Charles and Stemper. Several homes near Brant Lake were flooded.

All lake stages are in feet above the National Geodetic Vertical Datum of 1929 (NGVD of 1929). Stage records have been collected on Lake Carroll (site 24, fig. 1, table 4) since 1946. Month-end stages for Lake Carroll are shown as a hydrograph in figure 14, sheet 1, for the period of record and

Brant Lake were flooded.

All lake stages are in feet above the National Geodetic Vertical Datum of 1929 (NGVD of 1929). Stage records have been collected on Lake Carroll (site 24, fig. 1, table 4) since 1946. Month-end stages for Lake Carroll are shown as a hydrograph in figure 14, sheet 1, for the period of record and daily stages for 1979 are shown as hydrographs in figure 34. The maximum stage of 38.58 feet was exceeded in 1946, 1947, and 1960. The 1979 hydrograph (fig. 34) shows a moderate peak stage in May and a higher peak in September. Neither exceeded previous maximum month-end stages. The maximum for the lake occurred on September 27, and, according to the stage-frequency curve (fig. 36), this stage is expected to be exceeded about once every 12 years on the average.

Flooding of other areas in the Sweetwater Creek, Curiosity Creek, and Hillsborough River basins are shown on sheets 7.12; sheets 9 and 11; and on sheets 11 and 12, respectively. Flooding of other areas near Lakes Eckles and Carroll are shown on sheet 11 and on sheets 10-12, respectively.



RECURRENCE INTERVAL, IN YEARS

Figure 28.—Stage-frequency curve for Lake Stemper near Lutz.

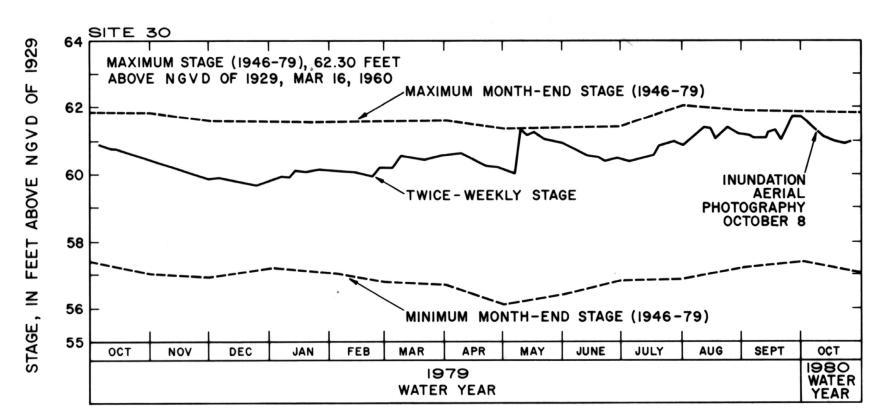
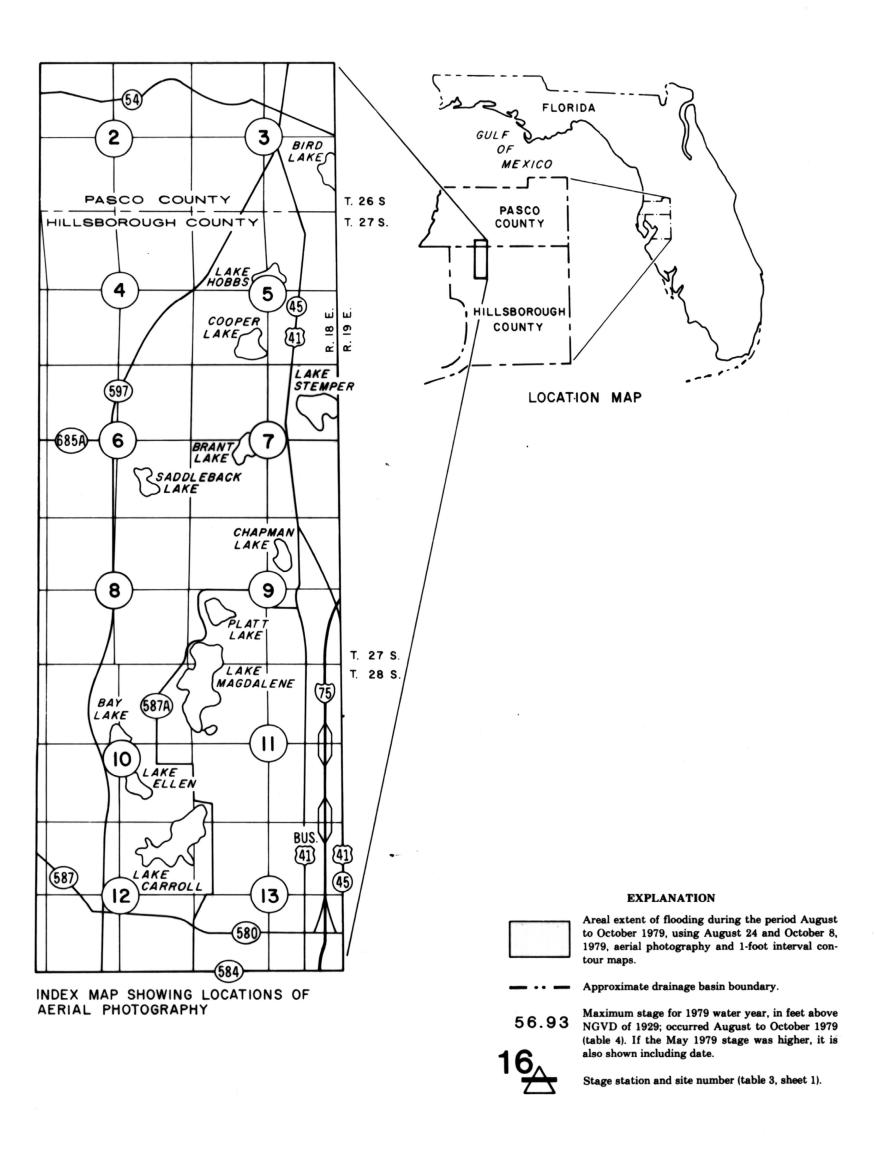


Figure 27.—Stage hydrographs for Lake Stemper near Lutz.



FLOOD DELINEATION BY
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
USING PHOTOGRAMMETRIC METHODS

AERIAL PHOTOGRAPHY BY
KUCERA AND ASSOCIATES, INC.
(SHEETS 2-11, OCTOBER 8, 1979)
AND
ABRAM AERIAL SURVEY
(SHEETS 12, 13, OCTOBER 5, 1979)

UNDER CONTRACT WITH
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